

In the Claims:

1.(currently amended) A system for detecting collapse of structures comprising:

a device for detecting vibration responses on exterior of said structure said device constructed so as to determine transient amplitude and decay characteristics of said structure said transient amplitude and decay characteristics indicative of collapse of said structure in real time;

said device including at least one accelerometer, said accelerometer constructed so as to receive acceleration responses from a structure in real time and in at least one axial direction;

said device including a filter and amplifier, said filter and amplifier constructed so as to connect to said accelerometer, said filter and amplifier further constructed so as to receive said real time acceleration responses, remove extraneous noise from said acceleration responses and amplify said acceleration responses;

said device including at least one transmitter, said transmitter constructed so as to connect to said filter and amplifier, said transmitter further constructed so as to receive said filtered and amplified real time acceleration responses, said transmitter further constructed so as to convert said real time acceleration responses to an analog signal and transmit said signal; and

said device including a first power source connected to said accelerometer, said filter and amplifier and said transmitter, said first power source constructed so as supply power to said accelerometer, said filter and amplifier and said transmitter, said first power source further constructed so as to obtain power from dependent and independent power supplies.

2.(original) A system for detecting collapse of structures as recited in claim 1 wherein said accelerometer having a reading range of 0 to 30 Hz.

3.(original) A system for detecting collapse of structures as recited in claim 2 wherein said independent power source comprises internal batteries.

4.(original) A system for detecting collapse of structures as recited in claim 3, wherein said device further comprises an external thermal casing, said casing constructed so as to protect said device from heat damages at temperatures up to 1900°F, said casing further constructed so as to be waterproof.

5.(original) A system for detecting collapse of structures as recited in claim 4, wherein said casing comprises a face plate

having an on-off indicator and an attachment means for attaching said device onto said structure.

6.(original) A system for detecting collapse of structures as recited in claim 5, wherein said on-off indicator is selected from a group consisting of a switch mechanism, an audio signal indicator and a visual signal indicator.

7.(original) A system for detecting collapse of structures as recited in claim 6, wherein said attachment means comprises adhesives and bolts.

8.(currently amended) A system for detecting collapse of structures comprising:

a display apparatus including a remote receiver constructed so as to receive real time analog signals and transmit said analog signals;

said display apparatus including an analog to digital converter being connected to said remote receiver, said converter constructed so as receive said analog signals and further constructed to convert said real time analog signals to real time digital signals;

said display apparatus including a computer, said computer being connected to said converter and constructed so as to receive

·said real time digital signals, compare stored threshold data with said real time digital signal and obtain a resultant value; and

said display apparatus further including a second power source constructed so as to supply power to said remote receiver, said analog to digital converter and said computer, said second power source further constructed so as to obtain power from a power supply.

9.(currently amended) A system for detecting collapse of structures as recited in claim 8 wherein said computer further comprises a central processing unit constructed so as to track said transient amplitude and decay characteristics indicative of structural collapse and provide on-site data reduction and analysis, said central processing unit connected to a memory unit, said central processing unit further connected to a display unit, said display unit constructed so as to display a collapse mechanism in real time, said central processing unit further connected to an user input.

10. (original) A system for detecting collapse of structures as recited in claim 9 wherein said power supply comprises batteries, AC sources and DC sources.

11.(currently amended) A system for detecting collapse of structures comprising:

a device for detecting vibration responses on exterior of said structure said device constructed so as to determine transient amplitude and decay characteristics of said structure, said transient amplitude and decay characteristics indicative of collapse of said structure in real time;

said device including at least one accelerometer, said accelerometer constructed so as to receive acceleration responses from a structure in real time and in at least one axial direction;

said device including a filter and amplifier, said filter and amplifier constructed so as to connect to said accelerometer, said filter and amplifier further constructed so as to receive said real time acceleration responses, remove extraneous noise from said acceleration responses and amplify said acceleration responses;

said device including at least one transmitter, said transmitter constructed so as to connect to said filter and amplifier, said transmitter further constructed so as to receive said filtered and amplified real time acceleration responses, said transmitter further constructed so as to transmit said real time acceleration responses as analog signals;

said device including a first power source connected to said accelerometer, said filter and amplifier and said transmitter, said first power source constructed so as supply power to said accelerometer, said filter and amplifier and said transmitter, said first power source further constructed so as to obtain power from an independent power supply;

said system further including a display apparatus connected to said device through a supply line;

said display apparatus including a remote receiver constructed so as to receive real time analog signals from said transmitter;

said display apparatus including an analog to digital converter being connected to said remote receiver, said converter constructed so as receive said real time analog signals and further constructed to convert said real time analog signals to real time digital signals;

said display apparatus including a computer, said computer being connected to said converter and constructed so as to receive said digital signals, compare stored threshold data with said digital signal and display ~~obtain~~ a resultant value indicative of collapse in real time;

said display apparatus further including a second power source constructed so as to supply power to said remote receiver, said analog to digital converter and said computer;

said second power source further constructed so as to obtain power from a power supply.

12.(original) A system for detecting collapse of structures as recited in claim 11 wherein said accelerometer having a reading range of 0 to 30 Hz.

13.(original) A system for detecting collapse of structures as recited in claim 12 wherein said independent power source comprises internal batteries.

14.(original) A system for detecting collapse of structures as recited in claim 13, wherein said device further comprises an external thermal casing, said casing constructed so as to protect said device from heat damages at temperatures up to 1900°F, said casing further constructed so as to be waterproof.

15.(original) A system for detecting collapse of structures as recited in claim 14, wherein said casing comprises a face plate having an on-off indicator and an attachment means for attaching said device onto said structure.

16.(original) A system for detecting collapse of structures as recited in claim 15, wherein said on-off indicator is selected

from a group consisting of a switch mechanism, an audio signal indicator and a visual signal indicator.

17.(original) A system for detecting collapse of structures as recited in claim 16, wherein said attachment means comprises adhesives and bolts.

18.(original) A system for detecting collapse of structures as recited in claim 17, wherein said supply line comprises a waterproof, thermal coating.

19.(original) A system for detecting collapse of structures as recited in claim 18, wherein said supply line comprises at least one wired communication line, said communication line constructed so as to connect said transmitter to said remote receiver.

20.(original) A system for detecting collapse of structures as recited in claim 19, wherein said supply line comprises a wired power supply line, said line constructed so as to supply power from said second power source to said first power source.

21.(original) A system for detecting collapse of structures as recited in claim 20 wherein said computer further comprises a central processing unit connected to a memory unit, said central processing unit further connected to a display unit, said central processing unit further connected to an user input.

22.(currently amended) A system for detecting collapse of structures as recited in claim 21 wherein said first power supply comprises batteries, AC sources and DC sources.

23.(original) A system for detecting collapse of structures as recited in claim 22, wherein said first power source is further constructed so as to receive power from a second power supply housed within said structure.

24.(original) A system for detecting collapse of structures as recited in claim 23, wherein said second power supply comprises an AC source, a DC source and batteries.

25.(currently amended) A system for detecting collapse of structures comprising:

a device for detecting vibration responses on exterior of said structure said device constructed so as to determine transient amplitude and decay characteristics of said structure, said

transient amplitude and decay characteristics indicative of collapse of said structure in real time;

said device including at least one accelerometer, said accelerometer constructed so as to receive acceleration responses from a structure in real time and in at least one axial direction;

said device including a filter and amplifier, said filter and amplifier constructed so as to connect to said accelerometer, said filter and amplifier further constructed so as to receive said real time acceleration responses, remove extraneous noise from said acceleration responses and amplify said acceleration responses;

said device including at least one transmitter, said transmitter constructed so as to connect to said filter and amplifier, said transmitter further constructed so as to receive said filtered and amplified real time acceleration responses, said transmitter further constructed so as to transmit said acceleration responses as real time analog signals;

said device including a first power source connected to said accelerometer, said filter and amplifier and said transmitter, said first power source constructed so as supply power to said accelerometer, said filter and amplifier and said transmitter, said first power source further constructed so as to obtain power from an independent power supply;

said system including a communication means for transmitting said real time analog signals to a display apparatus;

said display apparatus including a remote receiver constructed so as to receive said real time analog signals from said transmitter through said communication means;

said display apparatus including an analog to digital converter being connected to said remote receiver, said converter constructed so as receive said real time analog signals and further constructed to convert said analog signals to real time digital signals;

said display apparatus including a computer, said computer being connected to said converter and constructed so as to receive said digital signals, compare stored threshold data with said digital signal and display ~~obtain~~ a resultant value ~~indicative of collapse~~;

said display apparatus further including a second power source constructed so as to supply power to said remote receiver, said analog to digital converter and said computer, said second power source further constructed so as to obtain power from a power supply.

26.(original) A system for detecting collapse of structures as recited in claim 25 wherein said accelerometer having a reading range of 0 to 30 Hz.

27.(original) A system for detecting collapse of structures as recited in claim 26 wherein said independent power source comprises internal batteries.

28.(original) A system for detecting collapse of structures as recited in claim 27, wherein said device further comprises an external thermal casing, said casing constructed so as to protect said device from heat damages at temperatures up to 1900°F, said casing further constructed so as to be waterproof.

29.(original) A system for detecting collapse of structures as recited in claim 28, wherein said casing comprises a face plate having an on-off indicator and an attachment means for attaching said device onto said structure.

30.(original) A system for detecting collapse of structures as recited in claim 29, wherein said on-off indicator is selected from a group consisting of a switch mechanism, an audio signal indicator and a visual signal indicator.

31.(original) A system for detecting collapse of structures as recited in claim 30, wherein said attachment means comprises adhesives and bolts.

32.(original) A system for detecting collapse of structures as recited in claim 31, wherein said communication means comprises a wireless transmission system.

33.(currently amended) A system for detecting collapse of structures as recited in claim 32 wherein said computer further comprises a central processing unit constructed so as to track said transient amplitude and decay characteristics indicative of structural collapse and provide on-site data reduction and analysis, said central processing unit provide on-site data reduction and analysis, said central processing unit connected to a memory unit, said central processing unit further connected to a display unit, said display unit constructed so as to display a collapse mechanism in real time, said central processing unit further connected to an user input.

34.(original) A system for detecting collapse of structures as recited in claim 33 wherein said power supply comprises batteries, AC sources and DC sources.

35.(original) A system for detecting collapse of structures as recited in claim 34, wherein said first power source is further

constructed so as to receive power from a second power supply housed within said structure.

36.(original) A system for detecting collapse of structures as recited in claim 35, wherein said second power supply comprises an AC source, a DC source and batteries.

37.(currently amended) A system for detecting collapse of structures comprising:

a device for detecting vibration responses on exterior of said structure said device constructed so as to determine transient amplitude and decay characteristics of said structure said transient amplitude and decay characteristics indicative of collapse of said structure in real time;

said device including at least one accelerometer, said accelerometer constructed so as to receive acceleration responses from a structure in real time and in at least one axial direction;

said device including a filter and amplifier, said filter and amplifier constructed so as to connect to said accelerometer, said filter and amplifier further constructed so as to receive said real time acceleration responses, remove extraneous noise from said acceleration responses and amplify said acceleration responses;

said device including an analog to digital converter constructed so as to connect to said filter and amplifier, said converter further constructed so as to convert said real time acceleration responses to real time digital signals;

said device including a processor constructed so as to connect to said converter, said processor further constructed so as to process said real time digital signals;

said device including an identifier, constructed so as to connect to said processor, said identifier further constructed so as to identify data from said device;

said device including at least one transmitter, said transmitter constructed so as to connect to said filter and amplifier, said transmitter further constructed so as to receive said filtered and amplified real time acceleration responses, said transmitter further constructed so as to transmit said real time digital signals;

said device including a first power source connected to said accelerometer, said filter and amplifier, said analog to digital converter, said processor, said identifier and said transmitter, said first power source constructed so as supply power to said accelerometer, said filter and amplifier, said analog to digital converter, said processor, said identifier and said transmitter, said first power source further constructed so as to obtain power from an independent power supply.

38.(original) A system for detecting collapse of structures as recited in claim 37 wherein said accelerometer having a reading range of 0 to 30 Hz.

39.(original) A system for detecting collapse of structures as recited in claim 38 wherein said independent power source comprises internal batteries.

40.(original) A system for detecting collapse of structures as recited in claim 39, wherein said device further comprises an external thermal casing, said casing constructed so as to protect said device from heat damages at temperatures up to 1900°F, said casing further constructed so as to be waterproof.

41.(original) A system for detecting collapse of structures as recited in claim 40, wherein said casing comprises a face plate having an on-off indicator and an attachment means for attaching said device onto said structure.

42.(original) A system for detecting collapse of structures as recited in claim 41, wherein said on-off indicator is selected from a group consisting of a switch mechanism, an audio signal indicator and a visual signal indicator.

43.(original) A system for detecting collapse of structures as recited in claim 42, wherein said attachment means comprises adhesives and bolts.

44.(currently amended) A system for detecting collapse of structures comprising:

a display apparatus including a remote receiver constructed so as to receive ~~said~~ real time digital signals from a ~~said~~ transmitter;

said display apparatus including a computer, said computer being connected to said receiver constructed so as to receive said real time digital signals, compare stored threshold data with said digital signal and display ~~obtain~~ a resultant value indicative of collapse in real time;

said display apparatus further including a second power source constructed so as to supply power to said remote receiver and said computer;

said second power source further constructed so as to obtain power from a power supply.

45.(currently amended) A system for detecting collapse of structures as recited in claim 44, wherein said computer further comprises a central processing unit constructed so as to track

said transient amplitude and decay characteristics indicative of structural collapse and provide on-site data reduction and analysis, said central processing unit connected to a memory unit, said central processing unit further connected to a display unit, said display unit constructed so as to display a collapse mechanism in real time, said central processing unit further connected to an user input.

46.(original) A system for detecting collapse of structures as recited in claim 45 wherein said power supply comprises batteries, AC sources and DC sources.

47.(currently amended) A system for detecting collapse of structures comprising:

a device for detecting vibration responses on exterior of said structure said device constructed so as to determine transient amplitude and decay characteristics of said structure said transient amplitude and decay characteristics indicative of collapse of said structure in real time;

said device including at least one accelerometer, said accelerometer constructed so as to receive acceleration responses from a structure in real time and in at least one axial direction;

said device including a filter and amplifier, said filter and amplifier constructed so as to connect to said accelerometer, said filter and amplifier further constructed so as to receive said real time acceleration responses, remove extraneous noise from said real time acceleration responses and amplify said acceleration responses;

said device including an analog to digital converter constructed so as to connect to said filter and amplifier, said converter further constructed so as to convert said real time acceleration responses to real time digital signals;

said device including a processor constructed so as to connect to said converter, said processor further constructed so as to process said real time digital signals;

said device including an identifier, constructed so as to connect to said processor, said identifier further constructed so as to identify data from said device;

said device including at least one transmitter, said transmitter constructed so as to connect to said filter and amplifier, said transmitter further constructed so as to receive said filtered and amplified real time acceleration responses, said transmitter further constructed so as to transmit said real time digital signals;

said device including a first power source connected to said accelerometer, said filter and amplifier, said analog to digital

converter, said processor, said identifier and said transmitter, said first power source constructed so as supply power to said accelerometer, said filter and amplifier, said analog to digital converter, said processor, said identifier and said transmitter, said first power source further constructed so as to obtain power from an independent power supply;

said system further including a display apparatus connected to said device through a supply line;

said display apparatus including a remote receiver constructed so as to receive said digital signals from said transmitter;

said display apparatus including a computer, said computer being connected to said receiver constructed so as to receive said digital signals, compare stored threshold data with said digital signal and display ~~obtain~~ a resultant value indicative of collapse in real time;

said display apparatus further including a second power source constructed so as to supply power to said remote receiver and said computer;

said second power source further constructed so as to obtain power from a power supply.

48.(original) A system for detecting collapse of structures as recited in claim 47 wherein said accelerometer having a reading range of 0 to 30 Hz.

49.(original) A system for detecting collapse of structures as recited in claim 48 wherein said independent power source comprises internal batteries.

50.(original) A system for detecting collapse of structures as recited in claim 49, wherein said device further comprises an external thermal casing, said casing constructed so as to protect said device from heat damages at temperatures up to 1900°F, said casing further constructed so as to be waterproof.

51.(original) A system for detecting collapse of structures as recited in claim 50, wherein said casing comprises a face plate having an on-off indicator and an attachment means for attaching said device onto said structure.

52.(original) A system for detecting collapse of structures as recited in claim 51, wherein said on-off indicator is selected from a group consisting of a switch mechanism, an audio signal indicator and a visual signal indicator.

53.(original) A system for detecting collapse of structures as recited in claim 52, wherein said attachment means comprises adhesives and bolts.

54.(original) A system for detecting collapse of structures as recited in claim 53, wherein said supply line comprises a waterproof, thermal coating.

55.(original) A system for detecting collapse of structures as recited in claim 54, wherein said supply line comprises at least one wired communication line, said communication line constructed so as to connect said transmitter to said remote receiver.

56.(original) A system for detecting collapse of structures as recited in claim 55, wherein said supply line comprises a wired power supply line, said line constructed so as to supply power from said second power source to said first power source.

57.(currently amended) A system for detecting collapse of structures as recited in claim 56 wherein said computer further comprises a central processing unit constructed so as to track said transient amplitude and decay characteristics indicative of structural collapse and provide on-site data reduction and analysis, said central processing unit provide on-site data reduction and analysis, said central processing unit connected to a memory unit, said central processing unit further connected

to a display unit, said display unit constructed so as to display a collapse mechanism in real time, said central processing unit further connected to an user input.

58.(currently amended) A system for detecting collapse of structures as recited in claim 57 wherein said first power supply comprises batteries, AC sources and DC sources.

59.(original) A system for detecting collapse of structures as recited in claim 58, wherein said first power source is further constructed so as to receive power from a second power supply housed within said structure.

60.(original) A system for detecting collapse of structures as recited in claim 59, wherein said second power supply comprises an AC source, a DC source and batteries.

61. (currently amended) A system for detecting collapse of structures comprising:

a device for detecting vibration responses on exterior of said structure said device constructed so as to determine transient amplitude and decay characteristics of said structure said transient amplitude and decay characteristics indicative of collapse of said structure in real time;

said device including at least one accelerometer, said accelerometer constructed so as to receive acceleration responses from a structure in real time and in at least one axial direction;

said device including a filter and amplifier, said filter and amplifier constructed so as to connect to said accelerometer, said filter and amplifier further constructed so as to receive said real time acceleration responses, remove extraneous noise from said real time acceleration responses and amplify said acceleration responses;

said device including an analog to digital converter constructed so as to connect to said filter and amplifier, said converter further constructed so as to convert said real time acceleration responses to real time digital signals;

said device including a processor constructed so as to connect to said converter, said processor further constructed so as to process said real time digital signals;

said device including an identifier, constructed so as to connect to said processor, said identifier further constructed so as to identify data from said device;

said device including at least one transmitter, said transmitter constructed so as to connect to said filter and amplifier, said transmitter further constructed so as to receive said filtered

and amplified real time acceleration responses, said transmitter further constructed so as to transmit said digital signals;

said device including a first power source connected to said accelerometer, said filter and amplifier, said analog to digital converter, said processor, said identifier and said transmitter, said first power source constructed so as supply power to said accelerometer, said filter and amplifier, said analog to digital converter, said processor, said identifier and said transmitter, said first power source further constructed so as to obtain power from an independent power supply;

said system including a communication means for transmitting said digital signals to a display apparatus;

said display apparatus including a remote receiver constructed so as to receive said digital signals from said transmitter through said communication means;

said display apparatus including a computer, said computer being connected to said receiver constructed so as to receive said real time digital signals, compare stored threshold data with said digital signal and display ~~obtain~~ a resultant value indicative of collapse in real time;

said display apparatus further including a second power source constructed so as to supply power to said remote receiver and said computer;

said second power source further constructed so as to obtain power from a power supply.

62.(original) A system for detecting collapse of structures as recited in claim 61 wherein said accelerometer having a reading range of 0 to 30 Hz.

63.(original) A system for detecting collapse of structures as recited in claim 62 wherein said independent power source comprises internal batteries.

64.(original) A system for detecting collapse of structures as recited in claim 63, wherein said device further comprises an external thermal casing, said casing constructed so as to protect said device from heat damages at temperatures up to 1900°F, said casing further constructed so as to be waterproof.

65.(original) A system for detecting collapse of structures as recited in claim 64, wherein said casing comprises a face plate having an on-off indicator and an attachment means for attaching said device onto said structure.

66.(original) A system for detecting collapse of structures as recited in claim 65, wherein said on-off indicator is selected

from a group consisting of a switch mechanism, an audio signal indicator and a visual signal indicator.

67.(original) A system for detecting collapse of structures as recited in claim 66, wherein said attachment means comprises adhesives and bolts.

68.(original) A system for detecting collapse of structures as recited in claim 67, wherein said communication means comprises a wireless transmission system.

69.(currently amended) A system for detecting collapse of structures as recited in claim 68 wherein said computer further comprises a central processing unit constructed so as to track said transient amplitude and decay characteristics indicative of structural collapse and provide on-site data reduction and analysis, said central processing unit provide on-site data reduction and analysis, said central processing unit connected to a memory unit, said central processing unit further connected to a display unit, said display unit constructed so as to display a collapse mechanism in real time, said central processing unit further connected to an user input.

70.(original) A system for detecting collapse of structures as recited in claim 69 wherein said power supply comprises batteries, AC sources and DC sources.

71.(original) A system for detecting collapse of structures as recited in claim 70, wherein said first power source is further constructed so as to receive power from a second power supply housed within said structure.

72.(original) A system for detecting collapse of structures as recited in claim 71, wherein said second power supply comprises an AC source, a DC source and batteries.

73.(currently amended)A method for detecting collapse of structures comprising:

(a) attaching a device having at least one accelerometer, a filter and amplifier, at least on transmitter and an on-off indicator onto an exterior surface of a structure;

(b) monitoring acceleration responses transient amplitude and decay responses of said structure in real time using said at least one accelerometer;

(c) reducing noise and amplifying said responses using said filter and amplifier;

(d) converting said response to ~~an~~ a real time analog signal;

(e) transmitting said signal in real time to a remote receiver using said transmitter;

(f) receiving said signal using said remote receiver and transmitting said signal to a computer having a central processing unit;

(g) tracking said transient amplitude and decay characteristics indicative of structural collapse, providing on-site data reduction and analysis, providing on-site data reduction and analysis using said central processing unit and digitizing said signal in real time using said computer and comparing said signal to a threshold value;

(h) transmitting said digitized signal from said computer to said device;

(i) displaying said signal in real time on said device; and

(j) notifying an operator of collapse situation of said structure using said device.

74.(currently amended) A method for detecting collapse of structures as recited in claim 73 and further comprising:
monitoring acceleration responses in real time during burn of said structure, collapse of said structure and post collapse of said structure.

75.(new) A system for detecting collapse of a structure in real time comprising:

a means for detecting vibration responses on exterior of said structure said means constructed so as to determine transient amplitude and decay characteristics of said structure said transient amplitude and decay characteristics indicative of collapse of said structure in real time;

a means for removing extraneous noise from said vibration responses and amplifying said responses, said means connected to said means for detecting vibration responses; a means for transmitting filtered and amplified responses, for converting said acceleration responses to an analog signal and for transmitting said signal, said means transmitting filtered and amplified responses connected to said means for detecting said responses;

a means for supplying power from dependent and independent power supplies to said means for detecting said responses, said means for removing extraneous noise and amplifying said acceleration responses and said means for transmitting filtered and amplified responses.

76.(new) A system for detecting collapse of structures as recited in claim 75 wherein said means for detecting responses constructed to have a reading range of 0 to 30 Hz.

77. (new) A system for detecting collapse of structures as recited in claim 76 wherein said means for supplying independent power source comprises internal batteries.

78. (new) A system for detecting collapse of structures as recited in claim 77, wherein said system further comprises an external thermal casing, said casing constructed so as to protect said system from heat damages at temperatures up to 1900°F, said casing further constructed so as to be waterproof.

79. (new) A system for detecting collapse of structures as recited in claim 78, wherein said casing comprises a face plate having an on-off indicator and an attachment means for attaching said device onto said structure.

80. (new) A system for detecting collapse of structures as recited in claim 79, wherein said on-off indicator is selected from a group consisting of a switch mechanism, an audio signal indicator and a visual signal indicator.

81. (new) A system for detecting collapse of structures as recited in claim 80, wherein said attachment means comprises adhesives and bolts.

82.(new) A system for detecting collapse of structures comprising:

a display means for receiving real time analog signals connected to a means for converting said real time analog signals to real time digital signals and transmitting said signals to a remote receiver means;

a means for tracking said transient amplitude and decay characteristics indicative of structural collapse, said means receiving and storing said real time digital signals, providing on-site data reduction and analysis comparing said real time signals to threshold amplitude and decay values and transmitting said values to a display unit means for displaying a collapse mechanism in real time;

said display means including a second power means for supplying power to said remote receiver, said converter means and said tracking means, said second power means further constructed so as to obtain power from a power supply.

83.(new) A system for detecting collapse of structures as recited in claim 82 wherein said power supply comprises batteries, AC sources and DC sources.